[illegible]

[illegible]

[illegible]

[illegible] a [illegible] b [illegible] c [illegible] ab [illegible] 5 cm [illegible] bc [illegible] 3 cm [illegible] ca [illegible] 4 cm. [illegible] c [illegible] a [illegible] b [illegible]. [illegible] a [illegible] b [illegible] k [illegible]

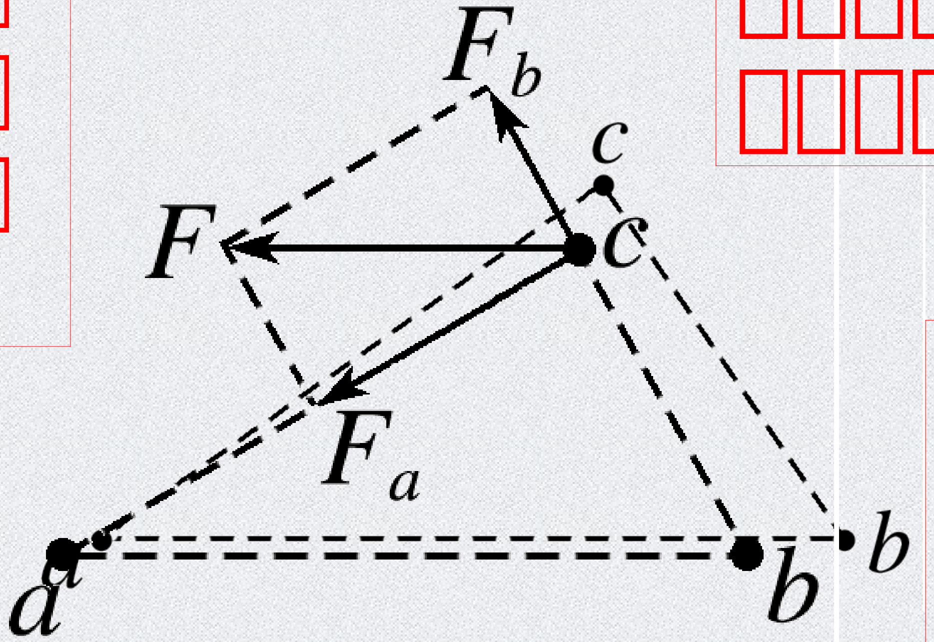
A. a [illegible] b [illegible] k [illegible] $\frac{16}{9}$

B. a [illegible] b [illegible] k [illegible] $\frac{16}{9}$

C. a [illegible] b [illegible] k [illegible] $\frac{64}{27}$

√ D. a [illegible] b [illegible] k [illegible] $\frac{64}{27}$

[illegible]



[illegible]

[illegible]

☆ [illegible] [illegible]

[illegible] [illegible]

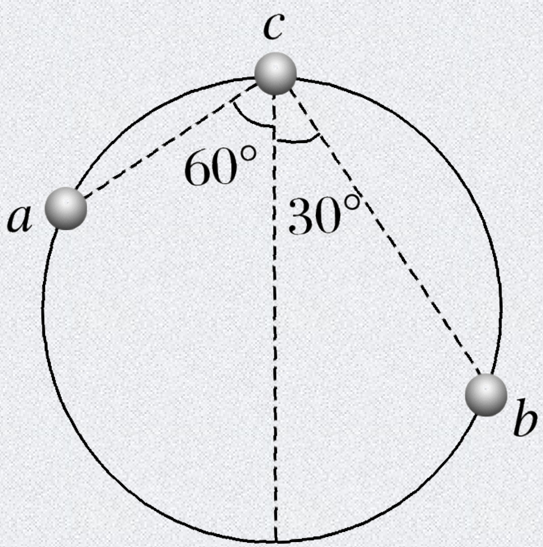
[illegible] a [illegible] b [illegible] c [illegible] c [illegible] ac [illegible] $60°$ [illegible] bc [illegible] $30°$ [illegible]. [illegible]

A. [illegible] a [illegible] b [illegible] √

B. [illegible] a [illegible] b [illegible]

C. [illegible] a [illegible] b [illegible] $\frac{\sqrt{3}}{6}$

D. [illegible] a [illegible] b [illegible] $\frac{\sqrt{3}}{9}$ √

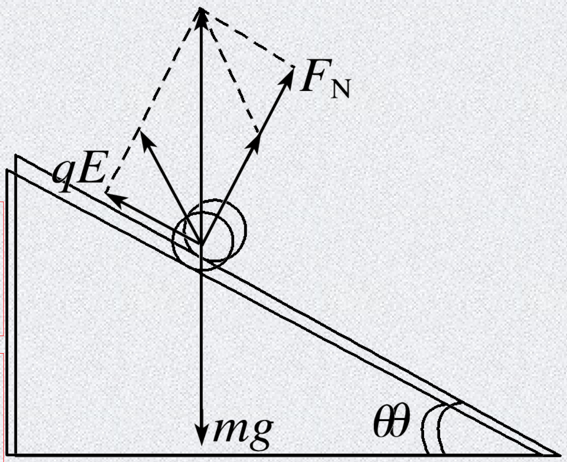


[illegible] - [illegible]

[illegible] - [illegible] or [illegible]

[illegible] θ [illegible]. [illegible] m [illegible]

q [illegible] ([illegible]) [illegible]



A. [illegible] $E=\frac{mg\tan\theta}{q}$ [illegible]

B. [illegible] $E=\frac{mg}{q}$ [illegible]

[illegible]

√ C. [illegible]

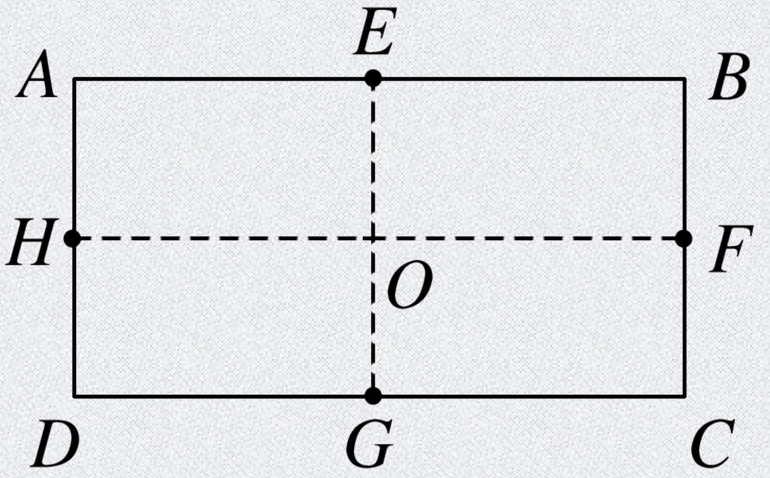
D. [illegible]

[illegible]

□□ **1** □□□□□□□□□□□□□□□□

□□□□□ E □ F □ G □ H □□□ $ABCD$ □□□□□□ O □ EG □ HF □□□□ AB □□□□□ $d.E$ □ G □□□□□□□□□□□□□□□□□□□□ Q □□□□□□□ H □□□ F □□□□□□□□□□□ . □□ H □□□□□□□ O □□□ F □□□□□□□□□□□ (□□□□□□ k)

□□□□□□□□□□□□



A. $\frac{4kQ}{d^2}$□□□□□

B. $\frac{4kQ}{d^2}$□□□□□

C. $\frac{3kQ}{d^2}$□□□□□

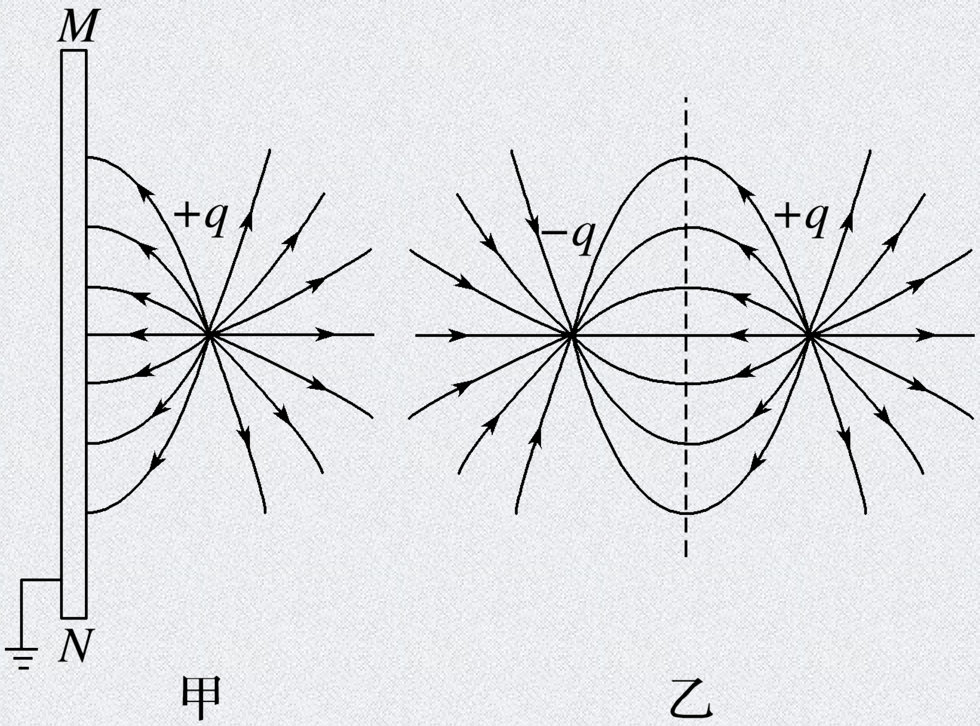
√ D. $\frac{3kQ}{d^2}$□□□□□

[illegible] 2 [illegible]

[illegible]

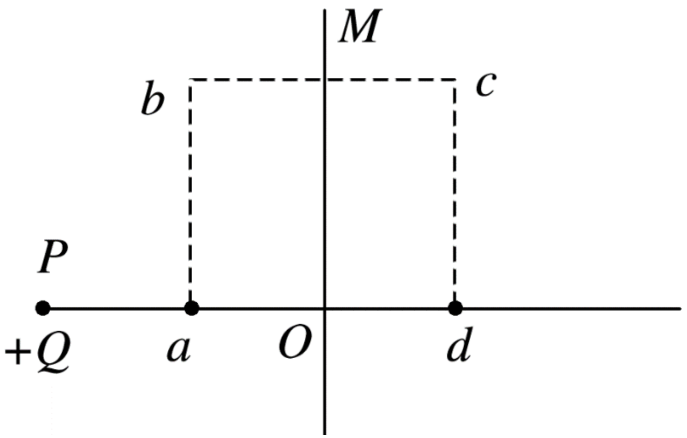
[illegible].

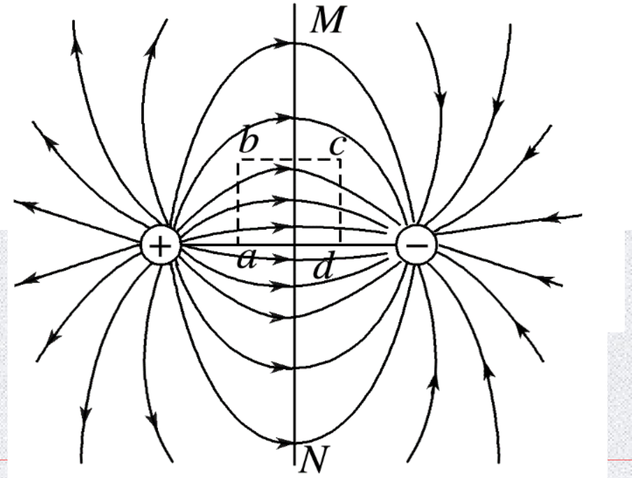
[illegible] q [illegible].



[illegible]

[illegible] MN [illegible] Q [illegible] MN [illegible] Q [illegible] Q [illegible]. [illegible] Q [illegible] Q [illegible]. [illegible] Q [illegible] P [illegible] MN [illegible] L [illegible] a [illegible] OP [illegible] $abcd$ [illegible] L [illegible] ab [illegible] MN. [illegible]





A. a [illegible] E [illegible] $4k\frac{Q}{L^2}$

√ B. a [illegible] b [illegible]

C. b [illegible] c [illegible]

D. [illegible] a [illegible] d [illegible]

[illegible] so [illegible]

[illegible]

[illegible]

[illegible]

[illegible] [illegible]

[illegible] M [illegible]

[illegible] N [illegible]. [illegible]

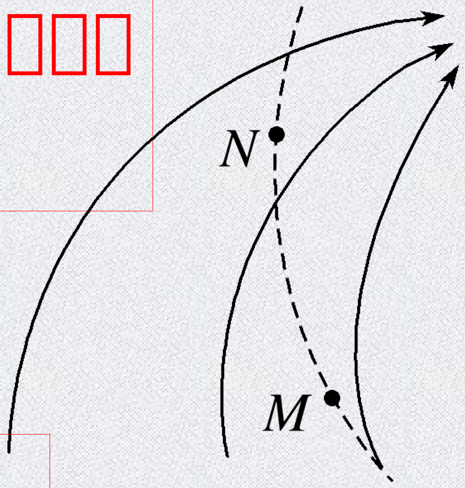
A. M [illegible] N [illegible] $E_M > E_N$

B. [illegible] M [illegible] N [illegible] $a_M > a_N$

C. [illegible] M [illegible] N [illegible] $v_M > v_N$ √

D. [illegible]

[illegible] E [illegible] a [illegible]
[illegible] F [illegible] ma [illegible]



[illegible] + [illegible]
[illegible]

C [illegible]